



DESCRIP : PATENT
TITLE : Flame retardant resin compsn. - comprises thermoplastic resin, organopolysiloxane resin, phosphoric ester and metal hydroxide
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DATE : 19931221
ABSTRACT : < BASIC> JP 05339510 A The flame retardant resin compsn. comprises of A) 100 pts.wt. of thermoplastic resin; (B) 1 to 50, pref. 5 to 10 pts.wt. of organopolysiloxane resin of formula (1) and having a molecular weight of 500 to 100,000 pref. 1,000 to 10,000; (C) 1 to 50, pref. 10 to 30 pts.wt. of phosphoric ester, and (D) 20 to 200, pref. 30 to 100 pts.wt. of metal hydroxide. $\text{RaSi(OR')bO(4-a-b)/2}$ (1) R = opt. substd. monovalent hydrocarbon gp.; R = H or 1-4C opt. substd. monovalent hydrocarbon gp; a = 0.1 to 3.0, (pref. 0.1 to 2.0); b = 0.01 to 0.5, pref. 0.01 to 0.05. (A) is polyethylene, polypropylene, high impact polystyrene, polycarbonate, polyvinyl chloride, acrylonitrile-butadiene-styrene copolymer or acrylonitrile-styrene copolymer. (B) has a curing temp. of 100 to 300 deg.C/ (C) is triphenyl phosphate, tricresyl phosphate, cresylphenyl phosphate or polyphosphoric ester. (D) is aluminum trihydroxide or magnesium dihydroxide. ADVANTAGE - The flame retardant resin compsn. has high safety and does not generate toxic gas nor causes dripping in combustion. Dwg.0/0
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